

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2005/002401

## A. CLASSIFICATION OF SUBJECT MATTER

G06F9/445(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F9/445(2006.01),G06F9/06(2006.01),G06F9/00(2006.01),G06F13/00(2006.01),G06F11/00(2006.01),G06F12/00(2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT WPI EPODOC PAJ: memory,storage,stor+,processor,CPU,initializ+,backup,back up,copy,recovery,recovering,reverse,BIOS,disk,data,information,computer,network,restore,access,execute

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1351292A (LIU JINTONG [CN]) 29 May 2002 (2002-05-29) see whole document	1-35
A	CN1471050A (MINGHUA AOHAN SCI & TECH CO LT [CN]) 28 Jan 2004 (2004-01-28) see whole document	1-35
A	US6374265B1 (INVENTEC CORP [TW]) 16 Apr 2002 (2002-04-16) see whole document	1-35
A	US6490722B1 (TIVO INC [US]) 3 Dec 2002 (2002-12-03) see whole document	1-35

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

“A” document defining the general state of the art which is not considered to be of particular relevance

“E” earlier application or patent but published on or after the international filing date

“L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

“O” document referring to an oral disclosure, use, exhibition or other means

“P” document published prior to the international filing date but later than the priority date claimed

“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

“&”document member of the same patent family

Date of the actual completion of the international search

27.Sep 2006 (27.09.2006)

Date of mailing of the international search report

02. NOV 2006 (02.11.2006)

Name and mailing address of the ISA/CN

The State Intellectual Property Office, the P.R.China  
6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China  
100088

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ZHAO, Weihua

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CN2005/002401

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN1351292A	29.05.2002	None	
CN1471050A	28.01.2004	None	
US6374265B1	16.04.2002	None	
US6490722B1	03.12.2002	WO0059214A	05.10.2000
		WO0058967A	05.10.2000
		WO0059223A	05.10.2000
		WO0058834A	05.10.2000
		WO0058833A	05.10.2000
		AU4057100A	16.10.2000
		AU4185800A	16.10.2000
		AU3878600A	16.10.2000
		AU3871700A	16.10.2000
		AU3521600A	16.10.2000
		WO0062533A	19.10.2000
		WO0062299A	19.10.2000
		WO0062298A	19.10.2000
		AU4186000A	14.11.2000
		AU4066700A	14.11.2000
		AU4185900A	14.11.2000
		EP1166269A	02.01.2002
		EP20000921558	30.03.2000
		EP1166270A	02.01.2002
		EP20000920073	30.03.2000
		EP1166555A	02.01.2002
		EP20000917880	09.03.2000
		EP1183689A	06.03.2002
		EP20000921559	30.03.2000
		EP1197072A	17.04.2002
		EP20000921560	30.03.2000
		CN1346571A	24.04.2002
		CN1148965C	05.05.2004
		CN1353851A	12.06.2002
		CN1353852A	12.06.2002
		CN1367925A	04.09.2002
		US6642939B	04.11.2003
		US6728713B	27.04.2004
		US6757906B	29.06.2004
		US6847778B	25.01.2005

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/CN2005/002401

**Information on patent family members**

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US6490722B1	03.12.2002	US6850691B	01.02.2005
		CN1592403A	09.03.2005
		US6868225B	15.03.2005

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

100011  
22/F, Great Eagle Centre, 23 Harbour  
Road, Wanchai, HONG KONG, P.R. China  
CHINA PATENT AGENT(H.K.) LTD

## PCT

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 *bis*.1)

Date of mailing

(day/month/year) 02. SEP 2006 (02.11.2006)

Applicant's or agent's file reference

FPEL05150077

**FOR FURTHER ACTION**

see paragraph 2 below

International application No.

PCT/CN2005/002401

International filing date (day/month/year)

30. Dec 2005 (30.12.2005)

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC

G06F9/445(2006.01)i

Applicant

INTEL CORPORATION et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/CN

The State Intellectual Property Office, the  
P.R.China 6 Xitucheng Rd., Jimen Bridge,  
Haidian District, Beijing, China 100088  
Facsimile No. 86-10-62019451

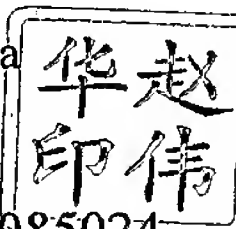
Date of completion of this opinion

27.Sep 2006 (27.09.2006)

Authorized officer

ZHAO, Weihua

Telephone No. (86-10)62085024



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**International application No.  
PCT/CN2005/002401**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of:
  - ☒ the international application in the language in which it was filed
  - ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of :
  - a. type of material
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☐ on paper
    - ☐ in electronic form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed
    - ☐ filed together with the international application in electronic form
    - ☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/CN2005/002401

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

1. Statement:

Novelty (N)	Claims 1-35	YES
	Claims	NO
Inventive step (IS)	Claims 1-35	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-35	YES
	Claims	NO

2. Citations and explanations

(1) Reference is made to the following documents:

D1:CN1351292A (LIU JINTONG [CN]) 29 May 2002 (2002-05-29)

D2:CN1471050A (MINGHUA AOHAN SCI & TECH CO LT [CN]) 28 Jan 2004 (2004-01-28)

D3:US6374265B1 (INVENTEC CORP [TW]) 16 Apr 2002 (2002-04-16)

D4:US6490722B1 (TIVO INC [US]) 3 Dec 2002 (2002-12-03)

(2) The subject matter of claims 1-35 of the present invention is a technique solution of system initialization for a computing device.

(3) D1 discloses a method for fast standing-by and restoration of information in wireless equipment features that the dedicated software is used by user to run it on the wireless equipment able to access Internet or on standing-by server on Internet.

D2 discloses a method and apparatus for operating data for integrated circuit board. The invented method and device can be applied to IC card for authenticating the validity of the user, the card and the system so as to ensure security of the card.

D3 discloses a method for backup and recovery of the long filename in computer system. This invention discloses a method for backup and recovery of the long filename in the computer system (e.g., DOS) that not support the long filename. The technique of the backup operation of this invention is to read the file directory table (FDT) from the logic partition of the hard disk by calling the basic input output system (BIOS) function; then transfer the long filename and short filename items into long filename format and saving to a backup file. Alternatively, recovering the backup is to search the short filename of each directory and sub directory and obtaining the data in the back up file; then write the matched long filename back to the original FDT.

D4 discloses a software installation and recovery system. The initial bootstrap instructions initialize low-level parameters of client device and load bootstrap loader from persistent store into program memory (802). A second stage boot loader (806) locates OS in persistent store and loads it to program memory. The OS performs necessary hardware and software initialization and loads the viewing object database code and application software from persistent store.

(4) The present invention is a technique solution for a computing device, comprising a module to backup one or more files of the computing device in response to a backup request and to restore one or more files of the computing device in response to a recovery request; and a point managing module to set up a backup point. It is obvious that not all the technical features in claims 1,9,15 and 29 are disclosed by D1~D4, so the subject matters of claims 1,9,15 and 29 are therefore new (Article 33(2) PCT). And it is also obvious that not all the technical features in claims 1,9,15 and 29 are disclosed by D1~D4 and further the technical solutions claimed are not obvious to a person skilled in the art on the basis of D1~D4 or their combinations. Thus, claims 1,9,15 and 29 have inventive step under PCT Article 33(3). Claims 2-8,10-14,16-28,30-35 are dependent on claims 1,9,15,29 and as such also meet the requirements of the PCT with respect to novelty and inventive step. Claims 1-35 have industrial applicability under PCT Article 33(4), because the subject matter of the present invention is a technique solution of system initialization for a computing device.